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# CDF Operations Report

JJ Schmidt  
22-July-2004  
CDF Weekly Meeting



# STORE SUMMARY

Store	Start Date	Duration (hours)	Inst Lum Initial e30 cm-2 s-1	Int. Lum Delivered nb-1	Live Lum nb-1	All Good nb-1	Tevatron Terminate
3655 <sup>#</sup>	7/15	30.4	81.5	3,482	2,548 73%	2,184 63%	OK
3657	7/16	31.9	111.7 <sup>+</sup>	4,457	3,629 81%	3,564 80%	OK
3659	7/17	15.8	31.3	1,175	1,063 90%	980 83%	OK
3661	7/18	35.1	79.3	3,549	3,164 89%	3,164 89%	OK <sup>*</sup>
3663	7/20	32.6	97.9 <sup>+</sup>	3,863	2,993 78%	2,726 71%	OK
3665	7/21		92.9 <sup>+</sup>	ONGOING STORE			
Total 3655-3663		145.9		16,526	13,397 81%	12,617 76%	
Total FY04 3033-3663		3,273		291,024	229,827 79%	165,686 57%	

+ Mixed Mode Shot

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\* Store 3661 quenched during end-of-store study.

# Store 3655 - Silicon SRC failure



## STORE SUMMARY (cont'd)

Store	Initial DEAD@Lumi e30 cm-2 s-1	Int. Lum Delivered nb-1	Int. Dead Lum nb-1	Down Time Logger nb-1	"DAQ Dead" nb-1	Mystery nb-1
3655	10%@79	3,482	935	664	98 3.9%	173
3657	75%@108	4,457	828	332	182 5%	314
3659	1%@31	1,175	112	58	22 2.1%	32
3661	9%@76	3,549	385	200	105 3.3%	80
3663	25%@94	3,863	870	502	160 4.8%	208
3665	17%@85					



# Major Down Times

CDF DownTimeSummary - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://www-cdfonline.fnal.gov/cdfdb/servlet/TevStoreList> Go Links

Click on category name to see largest lumi lost event for that category

Category	Group	nEvents	TotalDownTime, minutes	TotalLostLumi, nb <sup>-1</sup>
<a href="#">STARTUP</a>	DAQ	2	18	1,134.459
<a href="#">TEVLOSS</a>	ACCEL	12	136	226.944
<a href="#">SVX DAQ</a>	DAQ	4	151	225.834
<a href="#">TRIGSVT</a>	TRIGGER	4	152	221.201
<a href="#">SVX HV</a>	HV	4	47	201.029
<a href="#">TDCs</a>	DAQ	8	43	165.329
<a href="#">BMU HV</a>	HV	3	32	111.523
<a href="#">TRIGLVL2</a>	TRIGGER	6	79	108.543
<a href="#">PCAL HV</a>	HV	2	18	97.465
<a href="#">SMXR</a>	DAQ	1	16	81.954
<a href="#">EVB</a>	DAQ	3	37	49.218
<a href="#">TEVSTUD</a>	ACCEL	3	58	46.556
<a href="#">TRIGSUPR</a>	TRIGGER	3	24	32.332
<a href="#">TRIGLVL3</a>	TRIGGER	1	30	26.345
<a href="#">CMX HV</a>	HV	3	19	17.420
<a href="#">IFIX</a>	DAQ	1	4	15.413
<a href="#">ADMEMs</a>	DAQ	1	4	10.884
<a href="#">L2UPGRAD</a>	TRIGGER	1	7	7.858
<a href="#">HUMERR</a>	OPERATN	1	3	7.636
<a href="#">HVCNTRL</a>	HV	1	6	6.948
<a href="#">DAQOTHER</a>	DAQ	1	7	5.614
<b>Total</b>		<b>65</b>	<b>891</b>	<b>2,800.505</b>
Pause Time *			134	n/a
Halt Time *			560	n/a
Intra-Run DeadTime **			247	2,055.383

Start | CDF DownTimeSum... | Microsoft PowerPoi... | Calculator | Internet | << 11:46 AM



## OFFLINE STATUS

- From: Soon Jun. 22 Juy 2004
- Subject: offline news
- Here is the offline news for this week, which can be included in your Ops report for the weekly meeting.
- I) CDF Farm
  - 1) Data Processing (as of 7/21/2004)
  - the last run processed and concatenating:
  - Run 185281 (7/18/2004) for A,B,C,E,G,H,J Streams
  - 2) Scheduled down-time this morning (cdffarm2 and fnpcc) to relocate rack position for servers
  - 3) the early period of Stream A [138425,150823] (4.4M events)
  - re-processing requested (Regis Lefevre and Mario Martinez-Perez)
  - and approved to check offline bits
- II) Express Production and Physics Monitoring:
  - 1) processed up to 185332 (7/21/2004)
  - 2) web based physics monitoring plots at
  - [http://fcdfwww.fnal.gov/~cdfopr/offline\\_mon/index.html](http://fcdfwww.fnal.gov/~cdfopr/offline_mon/index.html)
- Thanks,
- ---Soon and Tomo

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# CDF STATUS

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- COT full ON - getting reading to switch from Argon-Ethane-Air to Argon-Ethane-O<sub>2</sub>
- Tevatron beam conditions mostly good for Silicon
- Tevatron reliable last week - "mixed mode" stores with pbars from both accumulator and recycler appear to be almost operational
- Current trigger table handles 110E30 with only 75% deadtime. Deadtime less than 5% integrated over store.